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1 [A framework for the transmission of streaming media to mobile devices](#)

Kevin Curran, Gerard Parr

January 2002 International Journal of Network Management, Volume 12 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(302.57 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 81, Citation Count: 0

One interesting problem is the delay imposed upon mobile receivers when switching between wireless cells. We provide a solution to this in the form of an extension of Mobile IP's handoff algorithm. Our solution involves the exploitation of mobility prediction ...

2 [Security in mobile communications: challenges and opportunities](#)

Audun Jøsang, Gunnar Sanderud

January 2003 ACSW Frontiers '03: Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21, Volume 21

Publisher: Australian Computer Society, Inc.

Full text available: [pdf\(117.04 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 405, Citation Count: 2

The nature of mobile communication, characterised for example by terminals having poor user interface and limited processing capacity, as well as complex combination of network protocols, makes the design of security solutions particularly challenging. ...

Keywords: heterogeneous networks, mobile devices, security, usability

3 [Nanowire-based programmable architectures](#)



André Dehon

July 2005 ACM Journal on Emerging Technologies in Computing Systems (JETC), Volume 1 Issue 2

Publisher: ACM

Full text available: [pdf\(2.25 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 400, Citation Count: 3

Chemists can now construct wires which are just a few atoms in diameter; these wires can be selectively field-effect gated, and wire crossings can act as diodes with programmable resistance. These new capabilities present both opportunities and challenges ...

Keywords: Defect tolerance, Manhattan mesh, nanowires, programmable interconnect, programmable logic arrays, stochastic construction, sublithographic architecture

4 SAT-based equivalence checking of threshold logic designs for nanotechnologies



Yexin Zheng, Michael S. Hsiao, Chao Huang

May 2008 GLSVLSI '08: Proceedings of the 18th ACM Great Lakes symposium on VLSI

Publisher: ACM

Full text available: pdf(232.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

Novel nano-scale devices have shown promising potential to overcome physical barriers faced by complementary metal-oxide semiconductor (CMOS) technology in future circuit design. However many nanotechnologies are intrinsically suitable for implementing ...

Keywords: SAT, equivalence checking, nanotechnology, threshold logic

5 The Reconfigurable Streaming Vector Processor (RSVPTM)

Silviu Grircescu, Ray Essick, Brian Lucas, Phil May, Kent Moat, Jim Norris, Michael Schuette, Ali Saic
December 2003 MI CRO 36: Proceedings of the 36th annual IEEE/ACM International Symposium on Microarchitecture

Publisher: IEEE Computer Society

Full text available: pdf(305.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 71, Citation Count: 8

The need to process multimedia data places large computational demands on portable/embedded devices. These multimedia functions share common characteristics: they are computationally intensive and data-streaming, performing the same operation(s) on many data ...

6 Experience with "link-up notification" over a mobile satellite link



Martin Duke, Thomas R. Henderson, Jeff Meegan

July 2004 ACM SIGCOMM Computer Communication Review, Volume 34 Issue 3

Publisher: ACM

Full text available: pdf(429.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 45, Citation Count: 0

Over paths characterized by extended outage periods, a TCP connection can suffer a severe performance penalty due to its Retransmission Timeout (RTO) backoff mechanism. If outages are long enough, the RTO can grow large enough to cause unacceptably long ...

7 A destructive evolutionary process: a pilot implementation



Joe Sullivan, Conor Ryan

July 2007 GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation

Publisher: ACM

Full text available: pdf(265.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 53, Citation Count: 0

This paper describes the application of evolutionary search to the problem of Flash memory wear out. The operating parameters of Flash memory are notoriously difficult to determine, as the

optimal values vary from batch to batch. These parameters are ...

Keywords: experimentation, flash memory, reliability, silicon design

8 [Protection of long-reach PON traffic](#)



David K. Hunter, Tim H. Gilfedder

September 2006 AccessNets '06: Proceedings of the 1st international conference on Access network
Publisher: ACM

Full text available: [pdf\(181.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 89, Citation Count: 0

A resilience strategy is introduced for networks implementing dual homing (dual parenting) of customers, specifically those employing Long-Reach PONs (LR-PONs). Assuming that some mechanism exists to detect network element failures, the discussion concentrates ...

Keywords: GPON, internet routing protocols, passive optical networks, protection and restoration

9 [Protocol scrubbing: network security through transparent flow modification](#)

David Watson, Matthew Smart, G. Robert Malan, Farnam Jahanian

April 2004 IEEE/ ACM Transactions on Networking (TON), Volume 12 Issue 2

Publisher: IEEE Press

Full text available: [pdf\(316.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 121, Citation Count: 2

This paper describes the design and implementation of protocol scrubbers. Protocol scrubbers are transparent, interposed mechanisms for explicitly removing network scans and attacks at various protocol layers. The transport scrubber supports downstream ...

Keywords: intrusion detection, network security, protocol scrubber, stack fingerprinting

10 [An efficient system-on-a-chip design methodology for networking applications](#)



Valentina Salapura, Christos J. Georgiou, Indira Nair

September 2004 CASES '04: Proceedings of the 2004 international conference on Compilers, architecture, and synthesis for embedded systems

Publisher: ACM

Full text available: [pdf\(184.23 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 54, Citation Count: 0

This paper presents a System-on-a-Chip design methodology that uses a microprocessor subsystem as a building block for the development of chips for networking applications. The microprocessor subsystem is a self-contained macro that functions as an accelerator ...

Keywords: network processor, system-on-a-chip

11 [Structured streams: a new transport abstraction](#)



Bryan Ford

August 2007 SIGCOMM '07: Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: [pdf\(694.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 226, Citation Count: 0

Internet applications currently have a choice between stream and datagram transport abstractions. Datagrams efficiently support small transactions and streams are suited for long-running conversations, but neither abstraction adequately supports applications ...


Keywords: SST, TCP, best-effort, datagram, fairness, mobility, multimedia, reliable, stream, transport protocols, web transport

12 The OpenSSH protocol under the hood

Girish Venkatachalam

April 2007 Linux Journal, Volume 2007 Issue 156

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(15.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 268, Citation Count: 0

What's SSH all about?

13 Scalability, fidelity, and containment in the potemkin virtual honeyfarm



Michael Vrabie, Justin Ma, Jay Chen, David Moore, Erik Vandekieft, Alex C. Snoeren, Geoffrey M. Voelker, Stefan Savage

October 2005 ACM SIGOPS Operating Systems Review, Volume 39 Issue 5

Publisher: ACM

Full text available:  [pdf\(506.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 232, Citation Count: 13

The rapid evolution of large-scale worms, viruses and bot-nets have made Internet malware a pressing concern. Such infections are at the root of modern scourges including DDoS extortion, on-line identity theft, SPAM, phishing, and piracy. However, the ...

Keywords: copy-on-write, honeyfarm, honeypot, malware, virtual machine monitor

14 An anchor chain scheme for IP mobility management

Yigal Bejerano, Israel Cidon

September 2003 Wireless Networks, Volume 9 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(278.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 26, Citation Count: 0

This work presents a simple mobility scheme for IP-based networks, termed the "anchor chain" scheme. The scheme combines pointer forwarding and caching methods. Every mobile host (MH) is associated with a chain of anchors that connects it to its home ...

Keywords: cellular systems, location management, mobile-IP, mobility management, personal communication system, wireless systems

15 Mobile connectivity protocols and throughput measurements in the Ricochet Microcellular data network (MCDN) system




Mike Ritter, Robert J. Friday, Rodrigo Garces, Weill San Filippo, Cuong-Thinh Nguyen, Arty Srivasta

July 2001 MobiCom '01: Proceedings of the 7th annual international conference on Mobile

computing and networking

Publisher: ACM

Full text available:  pdf(178.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 34, Citation Count: 3

We describe the protocols implemented in the Ricochet MCDN system to provide continuous connectivity to mobile users traveling up to 70 mph. These protocols are general in nature for a frequency-hopping microcell-based system, particularly those that ...


Keywords: MCDN system architecture, Mobility, wireless networks, wireless protocols, wireless routing

16 [Modelling and performance evaluation of mobile multimedia systems using QoS-GSPN](#)

Tony Tsang

November 2003 Wireless Networks, Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(209.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 61, Citation Count: 1

Quality of Service (QoS) measurement of multimedia applications is one of the most important issues for call handoff and call admission control in mobile networks. Based on the QoS measure we propose a Generalized Stochastic Petri Net (GSPN) based ...

Keywords: QoS, QoS-GSPN, mobile system, multimedia system

17 [ACM SIGPLAN Notices: Volume 39 Issue 5](#)

May 2004 issue Volume 39 Issue 5

Publisher: ACM

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

18 [Scalability, fidelity, and containment in the potemkin virtual honeyfarm](#)

Michael Vrabie, Justin Ma, Jay Chen, David Moore, Erik Vandekieft, Alex C. Snoeren, Geoffrey M. Voelker, Stefan Savage

October 2005 SOSP '05: Proceedings of the twentieth ACM symposium on Operating systems principles

Publisher: ACM

Full text available:  pdf(506.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 232, Citation Count: 13

The rapid evolution of large-scale worms, viruses and bot-nets have made Internet malware a pressing concern. Such infections are at the root of modern scourges including DDoS extortion, on-line identity theft, SPAM, phishing, and piracy. However, the ...

Keywords: copy-on-write, honeyfarm, honeypot, malware, virtual machine monitor



19 [Exploiting perception in high-fidelity virtual environments](#)

Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez

July 2006 SIGGRAPH '06: ACM SIGGRAPH 2006 Courses

Publisher: ACM

Full text available:  pdf(5.07 MB)  mov(68.6 MIN) Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 173, Downloads (12 Months): 1546, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

20 Hash-based IP traceback



Alex C. Snoeren

August 2001 SIGCOMM '01: Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  pdf(179.03 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 146, Citation Count: 68


The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, wide-spread packet forwarding techniques such as NAT and encapsulation ...

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